



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12Q 1/68, 1/02, C12N 15/12, G01N 33/50, 33/564, A61K 38/17, 35/14, 39/395 // C12N 5/10	A1	(11) International Publication Number: WO 99/43851 (43) International Publication Date: 2 September 1999 (02.09.99)
--	----	---

(21) International Application Number: PCT/IE99/00012 (22) International Filing Date: 25 February 1999 (25.02.99) (30) Priority Data: 980134 25 February 1998 (25.02.98) IE 980668 12 August 1998 (12.08.98) IE (71) Applicant (for all designated States except US): NATIONAL UNIVERSITY OF IRELAND, CORK [IE/IE]; College Road, Cork (IE). (72) Inventors; and (75) Inventors/Applicants (for US only): O'BRIEN, Margaret [IE/IE]; Flat 2, 63 Shandon Street, Cork (IE). BERMINGHAM, John [IE/IE]; 37 Castleknock Crescent, Castleknock, County Dublin (IE). QUANE, Kathleen, A. [IE/IE]; Monanimy Upper, Killavullen, County Cork (IE). JENKINS, David, M. [GB/IE]; 27 The Highlands, Passage West, Cork (IE). McCARTHY, Tommie, V. [IE/IE]; Vista Villa, Montenotte, Cork (IE). (74) Agents: GATES, Marie, Christina, Esther et al.; Tomkins & Co., 5 Dartmouth Road, Dublin 6 (IE).	(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
	<p>Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> </p>

(54) Title: HLA LINKED PRE-ECLAMPSIA AND MISCARRIAGE SUSCEPTIBILITY GENE

(57) Abstract

The invention relates to the identification of a susceptibility gene for pre-eclampsia and eclampsia and provides methods and diagnostic kits for diagnosing susceptibility to normal pregnancy, pre-eclampsia, eclampsia, intrauterine growth retardation, miscarriage or miscarriage-related infertility. The invention is based on analysing HLA-G or HLA-G linked nucleic acid, or HLA-G protein or HLA-G mRNA or cells or molecules whose concentration changes as a result of HLA-G action. The invention also provides pharmaceutical compositions for and methods of treatment of the above conditions.